

PFO-1382 (Rev. 07-2004)

Approved for use through 3/31/2007. OMB 0651-0021

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TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

Express Mail mailing number: EV464637136US	Date of deposit: 10/12/04
File reference no.: 20030095 PCT	International application no. (if known):
Title of the invention: Acoustic Projector Having Minimized Mechanical Stresses	
Earliest priority date claimed (Day/Month/Year): 12 DEC 2003	

This is a new International Application

SCREENING DISCLOSURE INFORMATION:

In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (check as many boxes as apply):

The invention disclosed was not made in the United States of America.

There is no prior U.S. application relating to this invention.

The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on the Request form PCT/RO/101 and this listing does not constitute a claim for priority.)

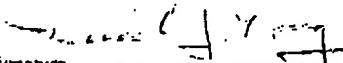
application no.	60/529,444	filed on	12 DEC 2003
application no.		filed on	

The present international application contains additional subject matter not found in the prior U.S. application(s) identified above. The additional subject matter is found on pages 1-13 and **DOES NOT ALTER** **MIGHT BE CONSIDERED TO ALTER** the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 C.F.R. 5.15.

Itemized list of contents

Sheets of Request form:	7	Check no.:	
Sheets of description (excluding sequence listing):	8	Return receipt postcard:	yes
Sheets of claims:	4	Power of attorney:	3
Sheets of abstract:	1	Certified copy of priority document (specify):	
Sheets of drawings:	3	Other (specify):	Fee calculation sheet
Sheets of sequence listing:			
Sequence listing diskette/CD:			
Tables related to sequence listing CD:			

The person signing this form is:

<input type="checkbox"/> Applicant	LONG, Daniel J.
<input checked="" type="checkbox"/> Attorney/Agent (Reg. No.)	Name of person signing
29,404	
<input type="checkbox"/> Common Representative	Signature 

This collection of information is required by 37 CFR 1.10 and 1.412. This information is required to obtain or retain a benefit by the public, which is in file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEE OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop 1100, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference
(if desired) (12 characters maximum) 20030095 PCT

Box No. I TITLE OF INVENTION Acoustic Projector Having Minimized Mechanical Stresses	
Box No. II APPLICANT	<input type="checkbox"/> This person is also inventor
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (no State of residence is indicated below).)	
BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. 65 Split Brook Road, NHQ01-719 Nashua, NH 03060 United States of America	
Telephone No. 603-885-2643	Facsimile No. 603-885-2167
Telex/Teletype No.	Applicant's registration No. with the Office
State (that is, country) of nationality: United States of America	State (that is, country) of residence: United States of America
This person is applicant <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box for the purposes of:	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (no State of residence is indicated below).)	
OSBORN, Jason W. 14 Bloody Brook Road Amherst, NH 03031 United States of America	
This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.)	
Applicant's registration No. with the Office	
State (that is, country) of nationality: United States of America	State (that is, country) of residence: United States of America
This person is applicant <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box for the purposes of:	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	
<input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	
LONG, Daniel J. BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC. 65 Split Brook Road, NHQ01-719 Nashua, NH 03060	
Telephone No. 603-885-2643	
Facsimile No. 603-885-2167	
Telex/Teletype No.	
Agent's registration No. with the Office 29,404	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.	

Sheet No. 2

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

DEANGELIS, Matthew M.
214 Back River Road
Bedford, NH 03110
United States of America

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:
United States of AmericaState (that is, country) of residence:
United States of America

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

This person is:

applicant only
 applicant and inventor
 inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the purposes of:

 all designated States all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box Further applicants and/or (further) inventors are indicated on another continuation sheet

Sheet No. 3

Box No. V DESIGNATIONS

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

DE Germany is not designated for any kind of national protection
 KR Republic of Korea is not designated for any kind of national protection
 RU Russian Federation is not designated for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the causing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application; country or Member of WTO	regional application: regional Office	international application: receiving Office
item (1) 12 DEC 2003	60/529,444	US		
item (2)				
item (3)				

Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this International application is the receiving Office) identified above as:

all items item (1) item (2) item (3) other, see Supplemental Box

* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(i)).

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (If two or more International Searching Authorities are competent to carry out the International search, indicate the Authority chosen; the two-letter code may be used):

ISA / US

Request to use results of earlier search; reference to that search (If an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year) Number Country (or regional Office)

Box No. VIII DECLARATIONS

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of declarations

<input type="checkbox"/> Box No. VIII (i)	Declaration as to the identity of the inventor	:
<input checked="" type="checkbox"/> Box No. VIII (ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:
<input checked="" type="checkbox"/> Box No. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:
<input checked="" type="checkbox"/> Box No. VIII (iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:
<input type="checkbox"/> Box No. VIII (v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	:

Sheet No. 4 . . .

Box No. VIII (II) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT*The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (I) to (V) (in general) and the specific Notes to Box No. VIII (II). If this Box is not used, this sheet should not be included in the request.*

Declaration as to the applicant's entitlement, as of the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis 1(n)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this international application,

BAE Systems Information and Electronic Systems Integration Inc. is entitled to apply for and be granted a patent by virtue of the following:

an assignment from Osbom, Jason W. and DeAngelis, Matthew M. to BAE Systems Information and Electronic Systems Integration Inc., dated 1 OCT 2004.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

Sheet No. 5

Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII (i) to (v) (in general) and the specific Notes to Box No VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as of the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)).

In relation to this International patent application,

BAE Systems Information and Electronic Systems Integration Inc. is entitled to claim priority of earlier application no. 60/529,444 by virtue of the following:

an assignment from Osborn, Jason W. and DeAngelis, Matthew M. to BAE Systems Information and Electronic Systems Integration Inc. dated 1 OCT 2004.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Confirmation of Box No. VIII (iii)".

Sheet No. 4

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
 The declaration must conform to the following standardized wording provided for in Section 214, see Notes to Boxes Nos. VIII, VIII (i) to (iv) (in general) and the specific Notes to Box No. VIII (iv). If this Box is not used, this sheet should not be included in the request.

**Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv))
 for the purposes of the designation of the United States of America**

I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.

This declaration is directed to the international application of which it forms a part (if filing declaration with application).

This declaration is directed to international application No. PCT/..... (if furnishing declaration pursuant to Rule 26ter).

I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.

I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.

Prior Applications: 80/529,444; filed: 12.DEC.2003

I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application.

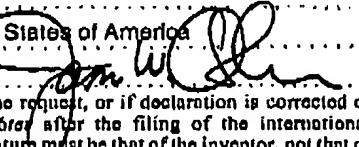
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name: OSBORN, Jason W. 03463

Residence: Amherst, New Hampshire, United States of America
 (city and either US state, if applicable, or country)

Mailing Address: 14 Bloody Brook Road

Citizenship: United States of America

Inventor's Signature: 
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application, The signature must be that of the inventor, not that of the agent)

Date: 10-1-04

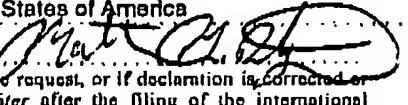
(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

Name: DEANGELIS, Matthew M. 03119

Residence: Bedford, New Hampshire, United States of America
 (city and either US state, if applicable, or country)

Mailing Address: 214 Back River Road

Citizenship: United States of America

Inventor's Signature: 
 (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application, The signature must be that of the inventor, not that of the agent)

Date: 10/1/04

(of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iv)".

Sheet No. 7

Box No. IX CHECK LIST; LANGUAGE OF FILING																																	
<p>This international application contains:</p> <p>(b) In paper form, the following number of sheets:</p> <table> <tr><td>request (including declaration sheets)</td><td>:</td><td>7</td></tr> <tr><td>description (excluding sequence listing and/or tables related thereto)</td><td>:</td><td>8</td></tr> <tr><td>claims</td><td>:</td><td>4</td></tr> <tr><td>abstract</td><td>:</td><td>1</td></tr> <tr><td>drawings</td><td>:</td><td>3</td></tr> <tr><td>Sub-total number of sheets</td><td>:</td><td>23</td></tr> <tr><td>sequence listing</td><td>:</td><td></td></tr> <tr><td>tables related thereto</td><td>:</td><td></td></tr> <tr><td colspan="2"><i>(for both, actual number of sheets (filled in paper form, whether or not also filed in computer readable form; see (c) below)</i></td><td></td></tr> <tr><td>Total number of sheets</td><td>:</td><td>23</td></tr> </table> <p>(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i)) (i) <input type="checkbox"/> sequence listing (ii) <input type="checkbox"/> tables related thereto</p> <p>(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii)) (i) <input type="checkbox"/> sequence listing (ii) <input type="checkbox"/> tables related thereto</p> <p>Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the</p> <p><input type="checkbox"/> sequence listing: <input type="checkbox"/> tables related thereto: <i>(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)</i></p>		request (including declaration sheets)	:	7	description (excluding sequence listing and/or tables related thereto)	:	8	claims	:	4	abstract	:	1	drawings	:	3	Sub-total number of sheets	:	23	sequence listing	:		tables related thereto	:		<i>(for both, actual number of sheets (filled in paper form, whether or not also filed in computer readable form; see (c) below)</i>			Total number of sheets	:	23	<p>This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <ol style="list-style-type: none"> <input checked="" type="checkbox"/> fee calculation sheet : 1 <input type="checkbox"/> original separate power of attorney : <input type="checkbox"/> original general power of attorney : <input checked="" type="checkbox"/> copy of general power of attorney; reference number, if any: <input type="checkbox"/> statement explaining lack of signature : <input type="checkbox"/> priority document(s) identified in Box No. VI as item(s): <input type="checkbox"/> translation of international application into (language): <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers) <ol style="list-style-type: none"> <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13(1) only (and not as part of the international application) : <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13(1) : <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column : <input type="checkbox"/> tables in computer readable form related to sequence listing (indicate type and number of carriers) <ol style="list-style-type: none"> <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application) : <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) : <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column : <input type="checkbox"/> other (specify): 	
request (including declaration sheets)	:	7																															
description (excluding sequence listing and/or tables related thereto)	:	8																															
claims	:	4																															
abstract	:	1																															
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tables related thereto	:																																
<i>(for both, actual number of sheets (filled in paper form, whether or not also filed in computer readable form; see (c) below)</i>																																	
Total number of sheets	:	23																															
Figure of the drawings which should accompany the abstract:	2	Language of filing of the international application:	English																														
<p>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE <i>Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</i></p> <p><u>Stasick, J. Long</u> <u>12 OCT 2007</u> LONG, Daniel J. <u>DATE</u> Attorney for Applicant</p>																																	

For receiving Office use only		
1. Date of actual receipt of the purported international application: 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: 4. Date of timely receipt of the required corrections under PCT Article 11(3): 5. International Searching Authority (if two or more are competent): ISA /		2. Drawings: <input type="checkbox"/> received: <input type="checkbox"/> not received:
6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid		
For International Bureau use only		
Date of receipt of the record copy by the International Bureau.		